

IN THE CLAIMS:

A status of all the claims of the present Application is presented below:

1-12 (canceled)

13. (New) A transmitter for remotely transmitting a coded command signal to a receiver associated with a barrier opening and closing operator, the receiver being of a type comprising a processor operable between a learn mode and an operate mode and having a manufacturer's key stored therein designating a particular manufacturer,

(a) said transmitter having associated therewith said manufacturer's key, a transmitter identifying code unique to that transmitter comprising at least a secret key code portion and a serial number code portion, and a non-linear function generator for generating a multi-bit hopping code that changes each time the transmitter is actuated,

(b) said transmitter, when actuated during the said learn mode, transmitting to the receiver a coded signal representative of the said hopping code and the said serial number code portion, the received transmitted serial number portion in combination with the receiver - stored manufacturing key causing said receiver to independently generate at least a secret key that corresponds to the secret key code portion of said transmitter, the so-generated secret key being randomly stored in memory in the receiver, and

(c) said transmitter, when subsequently actuated during the said operate mode, transmitting the hopping code to the receiver and causing the receiver to perform a non-linear decoding function on the intercepted hopping code using the so-generated secret key stored in memory in the receiver.

14. (New) The transmitter of claim 13 wherein said random storage of the so-generated secret key is in an unused discrete memory location, or if all said discrete memory locations are used, then by replacing the information stored in the randomly chosen memory location.

15. (New) The transmitter of claim 13 having additionally stored therein a synchronization value code portion that increments each time the transmitter is actuated, a synchronization value corresponding to the said synchronization value code additionally being generated in the receiver in addition to the so generated secret key, the performance of the said non-linear decoding function as a consequence of the actuation of the transmitter during the

said operate mode thereby generating a second synchronization value, comparing said second synchronization value with said stored synchronization value and generating said command signal when said second synchronization value bears, and is within a window of, a predetermined relationship with said stored synchronization value, in the absence of said predetermined relationship, performing another non-linear decoding function on the intercepted hopping code using a different one of said stored secret keys to generate another second synchronization value, and continually repeating the sequence until a second synchronization value is found which bears the said predetermined relationship with said stored synchronization value.